HITACHI

SERVICE MANUAL

NTSC

LC37/E/F Chassis

PA **No. 0185**

50VX500*	**LC37E**
50V500A	**LC37E**
60VX500	**LC37F**

R/C: CLU-5729TSI

This addendum includes all information necessary for the 50VX500, 50V500A and 60VX500, except information that is the same as the 50V500 and 60V500A. All features/adjustments for 50VX500, 50V500A and 60VX500 are the same as 50V500 and 60V500A. Please refer to Service Manual PA No. 0178 when servicing model 50VX500, 50V500A and 60VX500.

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The electrical and mechanical parts list only lists parts that are different from Service Manual PA No. 0178.

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NOTE: This product is to be serviced at board level.

NOTE: If a part does not list in this addendum, please refer to Service Manual PA No. 0178. For model 50VX500, refer to model 50V500 (50”) in Service Manual PA No. 0178. For model 50V500A and 60VX500, refer to model 60V500A (60”) in Service Manual PA No. 0178.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

SAFETY NOTICE
USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician read and follow the “Important Safety Instructions” in this Service Manual.

*** The 50VX500 has been changed to the LC37E chassis. Please refer to the LC37E when servicing the 50VX500.**

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

LCD REAR PROJECTION TELEVISION

SEPTEMBER 2003 **HHEA-MANUFACTURING DIVISION**

Version 0185.03

ELECTRICAL PARTS DIFFERENCE TABLE

Model Name	50V500	60V500A	50V500A	50VX500	60VX500
Chassis	LC37	LC37F	LC37E	LC37	LC37F
Optical Engine Ass'y	UX22201D*	UX22203D*	UX22202D*		UX22203D*
Drive PWB Ass'y	JP06781	JP07192	JP07191	JP06781	JP07192
Signal PWB Ass'y	JT24141	JT24144	JT24143	JT24141	JT24144
-I001	CK39571U	CK39572U	CK39572U	CK39571U	CK39572U
Power Supply PWB	JT24161	JT24164	JT24163	JT24161	JT24164
-C926	--	AJ00182F	AJ00182F	--	AJ00182F
-C954	0800363N	--	--	0800363N	--
-C955	0800363N	--	--	0800363N	--
-C956	0800363N	--	--	0800363N	--
-CAE3	0258616	0258901	0258616	0258616	0258901
-CAE4	0258616	0258902	0258617	0258617	0258902
-D931	CH02673R	--	--	CH02673R	--
-D941	2344041M	--	--	2344041M	--
-I911	CP05164F	--	--	CP05164F	--
-K932	JUMPER	--	--	JUMPER	--
-K9Z2	--	JUMPER	JUMPER		JUMPER
-K9Z3	--	JUMPER	JUMPER	--	JUMPER
-K9Z4	--	JUMPER	JUMPER	--	JUMPER
-K9Z5	--	JUMPER	JUMPER	--	JUMPER
-L923	2125811N	--	--	2125811N	--
-L936	2125811N	--	--	2125811N	--
-R971	JUMPER	--	--	JUMPER	--
-R980	AT03879	--	--	AT03879	--
-R9A5	0700045M	--	--	0700045M	--
Owner's Ass'y	UK06411	UK06411	UK06411	UK06412	UK06412
-Instruction Book	QR57024	QR57024	QR57024	QR58981	QR58981
-Simple Remote (R/C)	--	--	--	HL01861	HL01861
-Simple R/C Battery	--	--	--	FR00061	FR00061
F/C Unit	CS00771	CS00772	CS00772	CS00771	CS00772
LPW (Ferrite Core)	--	GX00662	GX00662	--	GX00662

* suffix 'D' added to indicate Dud Fee is now included

Notes:
Beside the parts difference listed above, please refer to Service Manual PA NO. 0178 for all other electrical parts.

Model 50VX500 has been changed from LC37 to LC37E

50VX500 - refer to model 50V500A.

CH 3

LCD Rear Projection TV
Major Assembly Parts List - By Model

50V500

HA01231	Lamp Power Unit
UX21511	Lamp Assy
JT24141	Signal PWB Assy, (includes Terminal and DVI PWB)
JT24161	Power PWB
JT24171	Control PWB
UX22201D*	Optical Engine Assy, (includes Drive and FC4 PWB)
X480263	Audio PWB, (includes Main and Sub PWB)
UE22341	LC37 Chassis

50VX500 **This model has been changed to LC37-E chassis**

HA01231	Lamp Power Unit
UX21511	Lamp Assy
JT24143	Signal PWB Assy, (includes Terminal and DVI PWB)
JT24163	Power PWB
JT24173	Control PWB
UX22202D*	Optical Engine Assy, (includes Drive and FC4 PWB)
X480266	Audio PWB, (includes Main and Sub PWB)
UE22343	LC37-E Chassis

50V500A (same as 50VX500 except screen/cabinet)

HA01231	Lamp Power Unit
UX21511	Lamp Assy
JT24143	Signal PWB Assy, (includes Terminal and DVI PWB)
JT24163	Power PWB
JT24173	Control PWB
UX22202D*	Optical Engine Assy, (includes Drive and FC4 PWB)
X480266	Audio PWB, (includes Main and Sub PWB)
UE22343	LC37-E Chassis

60V500A

HA01231	Lamp Power Unit
UX21511	Lamp Assy
JT24144	Signal PWB Assy, (includes Terminal and DVI PWB)
JT24164	Power PWB
JT24174	Control PWB
UX22203D*	Optical Engine Assy, (includes Drive and FC4 PWB)
X480265	Audio PWB, (includes Main and Sub PWB)
UE22344	LC37-F Chassis

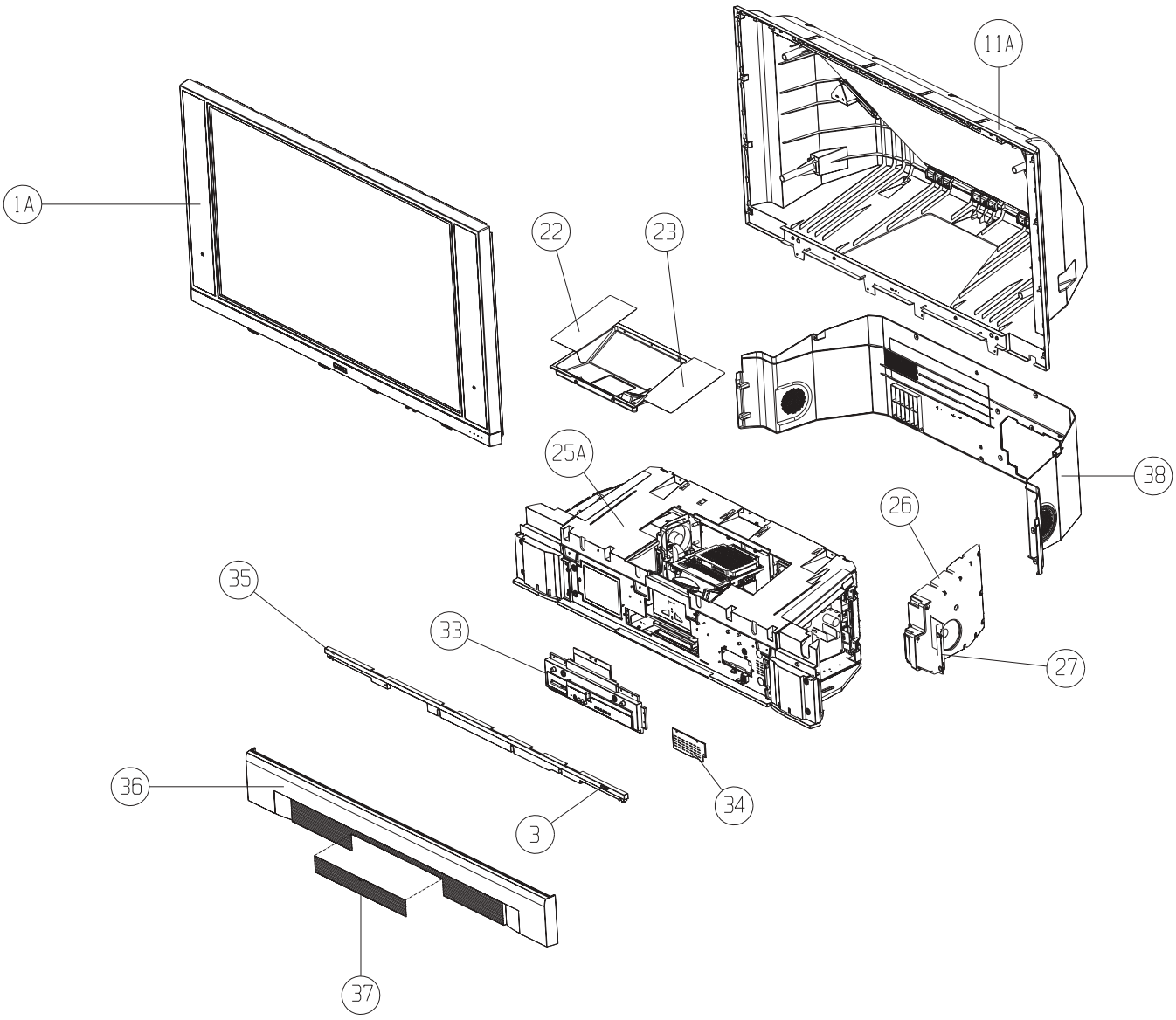
60VX500 (same as 60V500A except screen/cabinet)

HA01231	Lamp Power Unit
UX21511	Lamp Assy
JT24144	Signal PWB Assy, (includes Terminal and DVI PWB)
JT24164	Power PWB
JT24174	Control PWB
UX22203D*	Optical Engine Assy, (includes Drive and FC4 PWB)
X480265	Audio PWB, (includes Main and Sub PWB)
UE22344	LC37-F Chassis

* suffix 'D' added to indicate Dud Fee is now included

EXPLODED VIEW

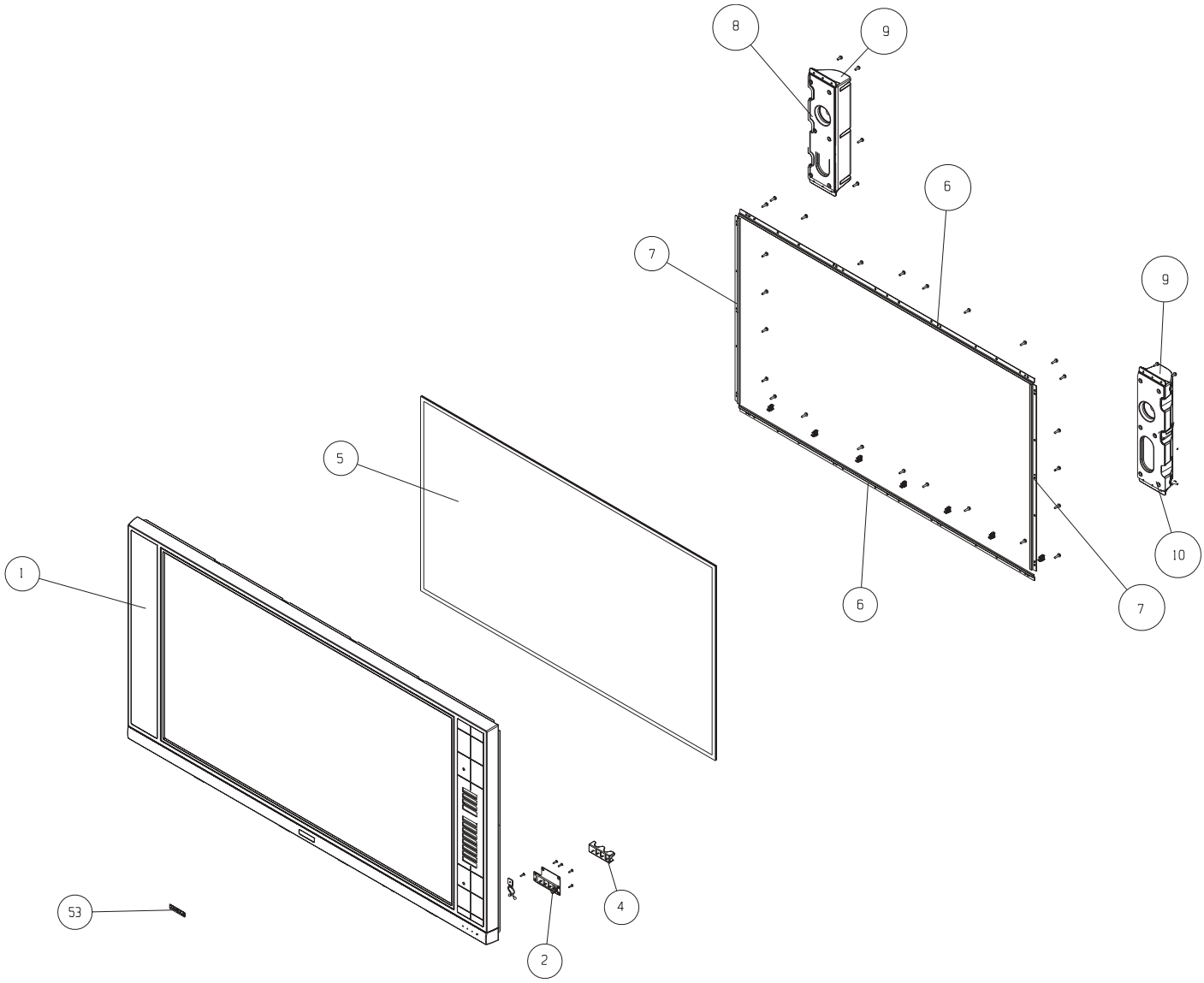
50V500/50V500A/50VX500 Drawing 1



NOTES: Some parts may appear different than those shown in the exploded view. When ordering, refer to the replacement parts list for the correct part number. The circled numbers correspond to the parts list shown on page 7.

EXPLODED VIEW

50V500/50V500A/50VX500 Drawing 2



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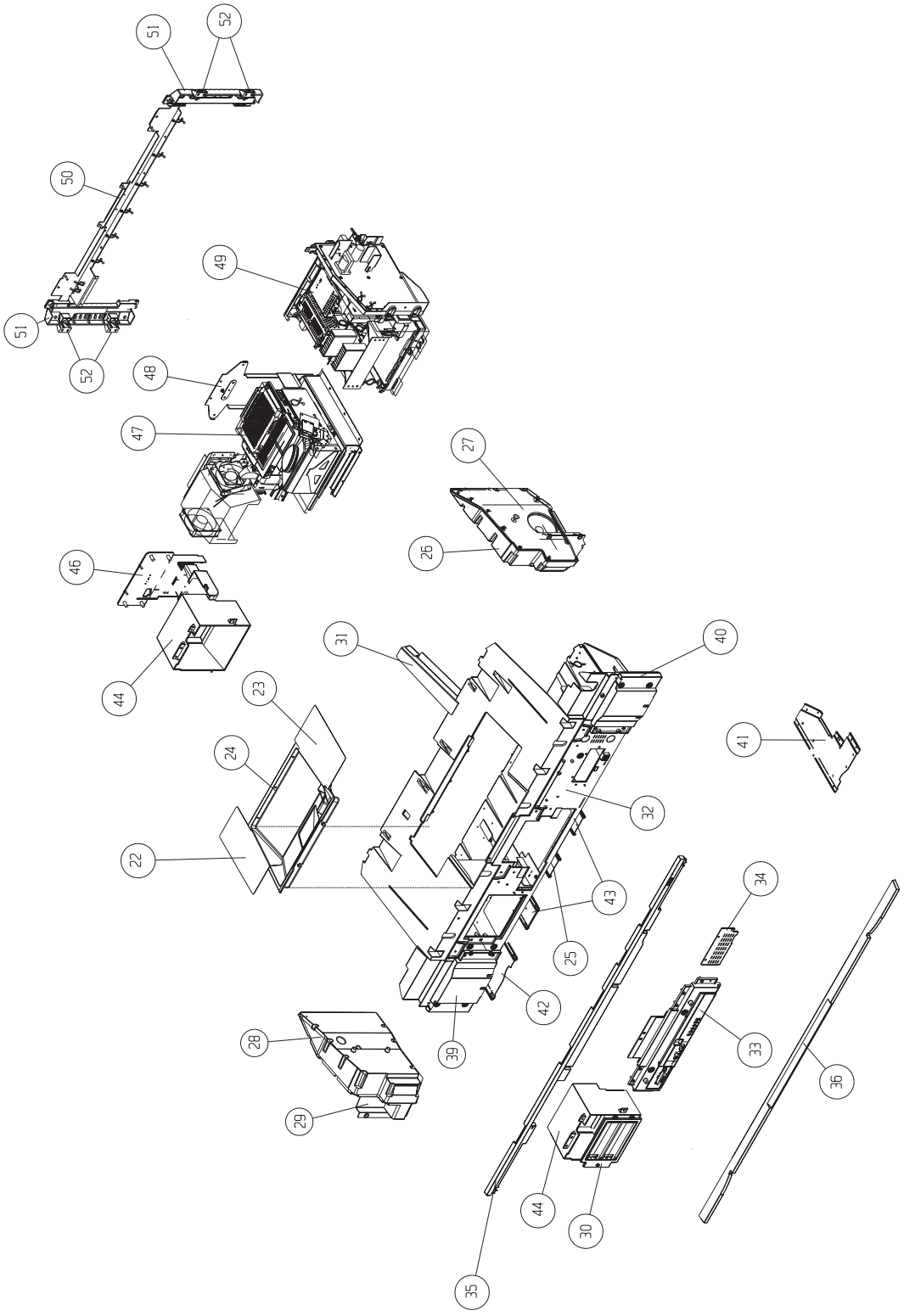
EXPLODED VIEW

50V500/50V500A/50VX500 Drawing 3



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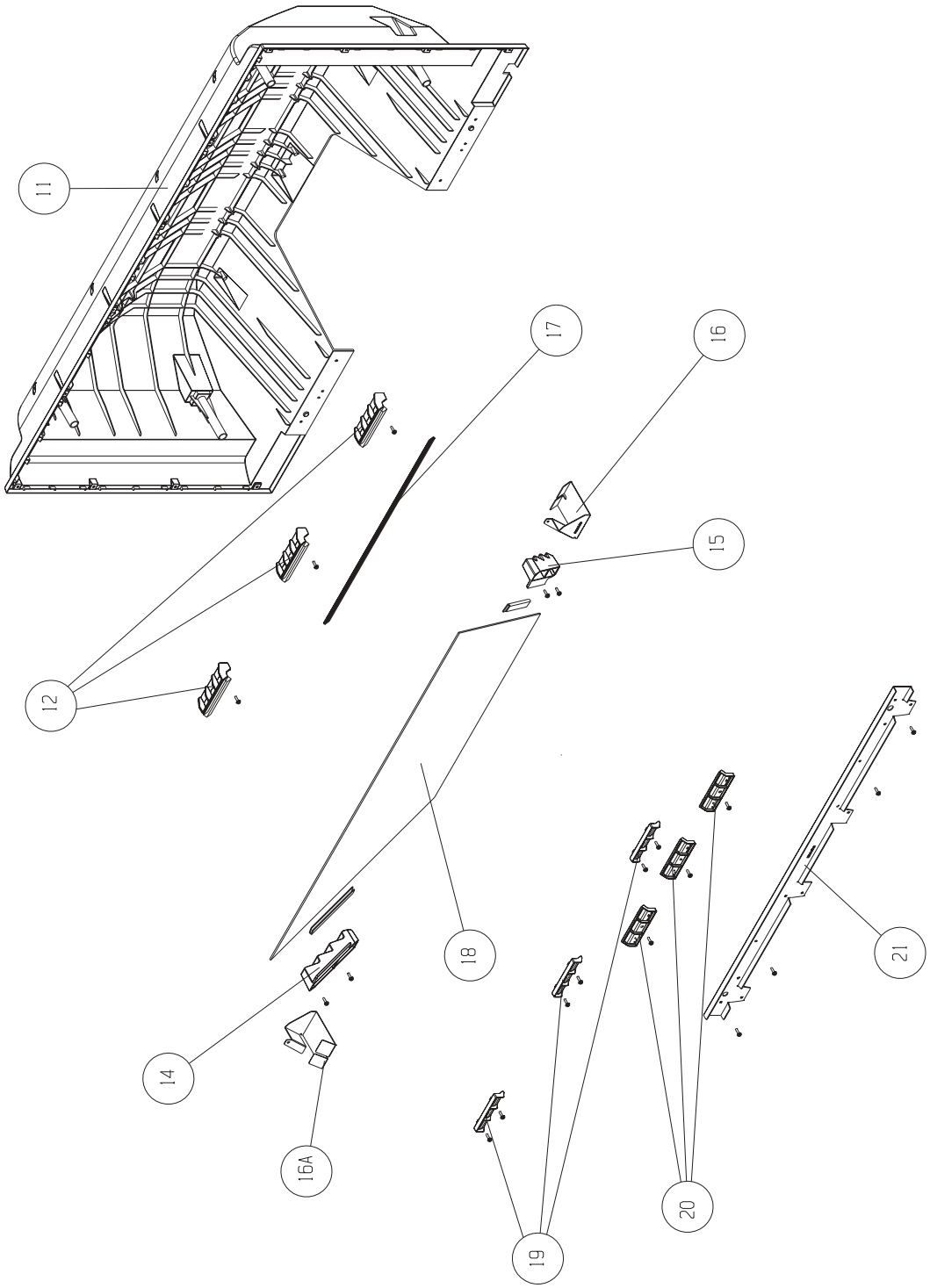
EXPLODED VIEW

50V500/50V500A/50VX500 Drawing 4



NOTES: Some parts may appear different than those shown in the exploded view. When ordering, refer to the replacement parts list for the correct part number. The circled numbers correspond to the parts list shown on page 7.

50" EXPLODED VIEW PARTS LIST

No	50V500 PART No	50V500A PART No	50VX500 PART No	DESCRIPTION	QTY
1A	NT03101	NT03103	NT03105	50V500 FRAME ASSY	1
1	QD36131	QD36131	QD36132	SCREEN FRAME 50V500	1
2	JT24171	JT24171	JT24171	CONTROL PWB ASSY	1
3	PC05731	PC05731	PC05731	POWER BUTTON V500	1
4	KQ03291	KQ03291	KQ03291	LED LENS V500	1
5	**KR03131**	**KR03131**	**KR03132**	50V SCREEN ASSY	1
6	NA66781	NA66781	NA66783	SCR FIX MTL H 50V500	2
7	NA66791	NA66791	NA66793	SCR FIX MTL V 50V500	2
8	NJ08042	NJ08042	NJ08042	SP BAFFLE L V500	1
9	NJ08051	NJ08051	NJ08051	SP BOX COVER V500	2
10	NJ08041	NJ08041	NJ08041	SP BAFFLE R V500	1
11A	KS06401	KS06403	KS06401	50V500 MIRROR COVER ASSY	1
11	QD36141	QD36141	QD36141	MIRROR COVER 50V500	1
12	NJ07801	NJ07801	NJ07801	MIRROR FIX PART UP 50V500	3
14	NJ07822	NJ07822	NJ07822	MIRROR FIX PART L 50V500	1
15	NJ07821	NJ07821	NJ07821	MIRROR FIX PART R 50V500	1
16A	NA69012	NA69012	NA69012	V500 MIRR SIDE MTL L	1
16	NA69011	NA69011	NA69011	V500 MIRR SIDE MTL R	1
17	MN06151	MN06151	MN06151	V500 MIRR LOW SPACER	1
18	KS06581	KS06581	KS06581	1ST MIRROR 50V500	1
19	NJ07831	NJ07831	NJ07831	MIRROR FIX PART UP B 50V500	3
20	NJ07811	NJ07811	NJ07811	MIRROR FIX PART LOW 50V500	3
21	NA64502	NA64502	NA64502	MIRR FIX LO MTL 50V	1
22	MN05841	MN05841	MN05841	V500 BARRIER L	1
23	MN05831	MN05831	MN05831	V500 BARRIER R	1
24	ME03441	ME03442	ME03442	LOW UPPER COVER V500	1
25A	QD36001	QD36003	QD36005	50V LOW CABINET ASSY	1
25	NA66741	NA66741	NA66741	BTM RAIL FIX MTL C50	1
26	NJ08072	NJ08072	NJ08072	WOOFER BOX COV L V500	1
27	NJ08061	NJ08061	NJ08061	WOOFER BAFFLE R V500	1
28	NJ08071	NJ08071	NJ08071	WOOFER BOX COV R V500	1
29	NJ08062	NJ08062	NJ08062	WOOFER BAFFLE L V500	1
30	PH33033	PH33033	PH33033	LAMP COVER 50V	1
31	ME03592	ME03592	ME03592	V500 BARRIER SIDE R	1
32	QD36151	QD36153	QD36153	LOW CABINET 50V500	1
33	PH33161	PH33161	PH33161	CONTROL PANEL V500	1
34	PH33441	PH33441	PH33441	LO CABI COVER F V500	1
35	PH33041	PH33041	PH33041	FRONT TRIM 50V500	1
36	PH32981	PH32981	PH32982	FRONT COVER 50V500	1
36A	PH32971	PH32971	PH32972	BOTTOM RAIL 50V500	1
37	PH33173	PH33173	PH33174	CONTROL DOOR V500	1
39	NJ07852	NJ07852	NJ07852	LO CABI SIDE L 50V500	1
40	NJ07851	NJ07851	NJ07851	LO CABI SIDE R 50V500	1
41	NA66732	NA66732	NA66732	BTM SIDE FIX MTL L50	1
42	NA66731	NA66731	NA66731	BTM SIDE FIX MTL R50	1
43	NA64181	NA64181	NA64181	BTM RAIL FIX MTL 50V500	2
44	NJ08181	NJ08181	NJ08181	LAMP DUCT B LC3X	1
46	NJ08171	NJ08171	NJ08171	LAMP DUCT A LC3X	1
47	**UX22201D**	**UX22202D**	**UX22202D**	LC37 OPTICAL BLOCK ASSY	1
48	NA66774	NA66774	NA66774	LOW CABI METAL C V500	1
49	UE22341	UE22343	UE22341	LC37 CHASSIS BLOCK ASSY	1
50	NA66763	NA66763	NA66763	LOW CABI METAL B V500	1
51	NJ08261	NJ08261	NJ08261	V500 CABI BRACKET 2	2
52	NJ08271	NJ08271	NJ08271	V500 CABI BRACKET 3	4
53	PU00801	PU00801	PU00802	ULTRAVISION BADGE	1
38	**QD36551**	**QD36551**	**QD36551**	**Lower Rear Cover 50"**	

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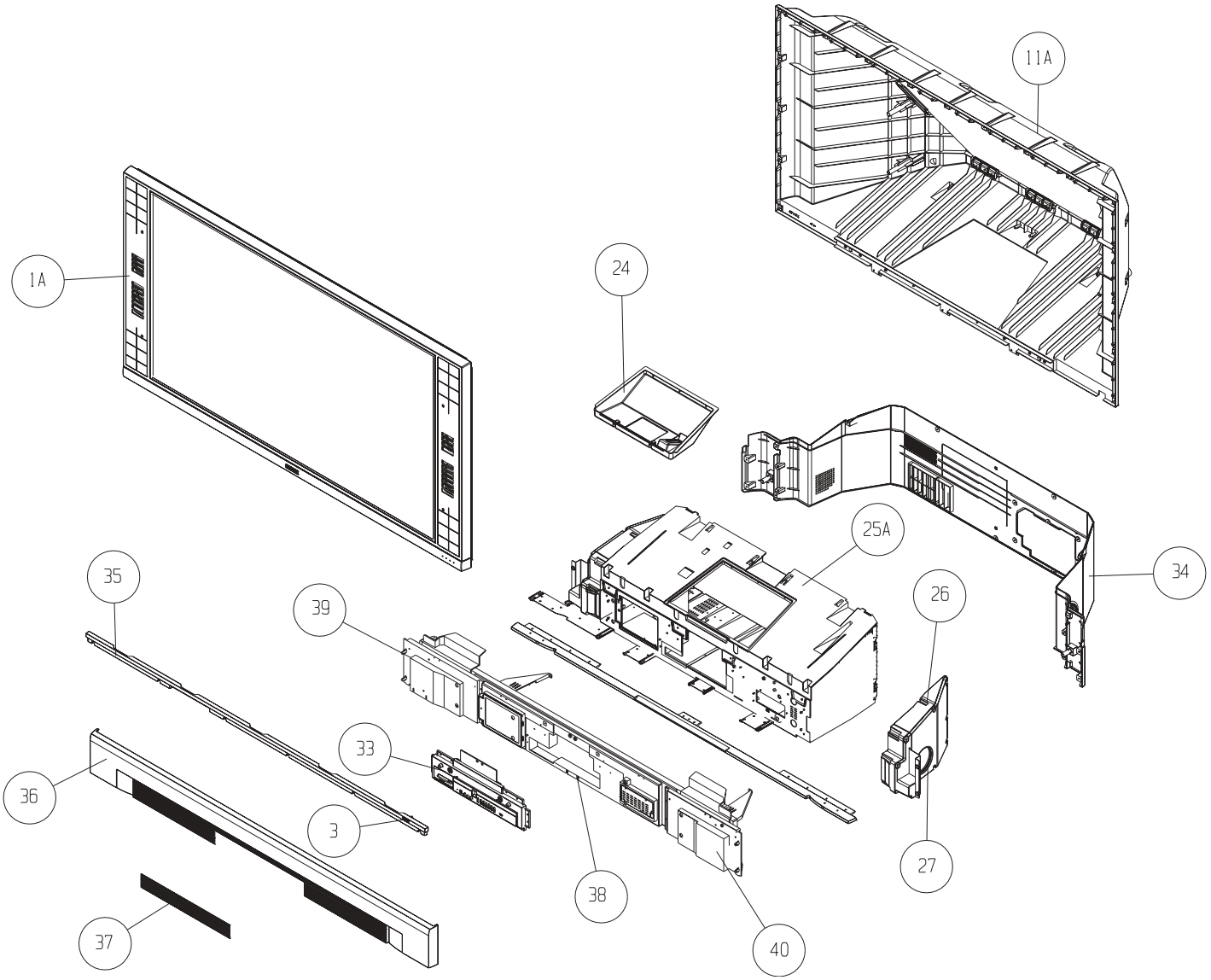
EXPLODED VIEW
60VX500/60V500A Drawing 1



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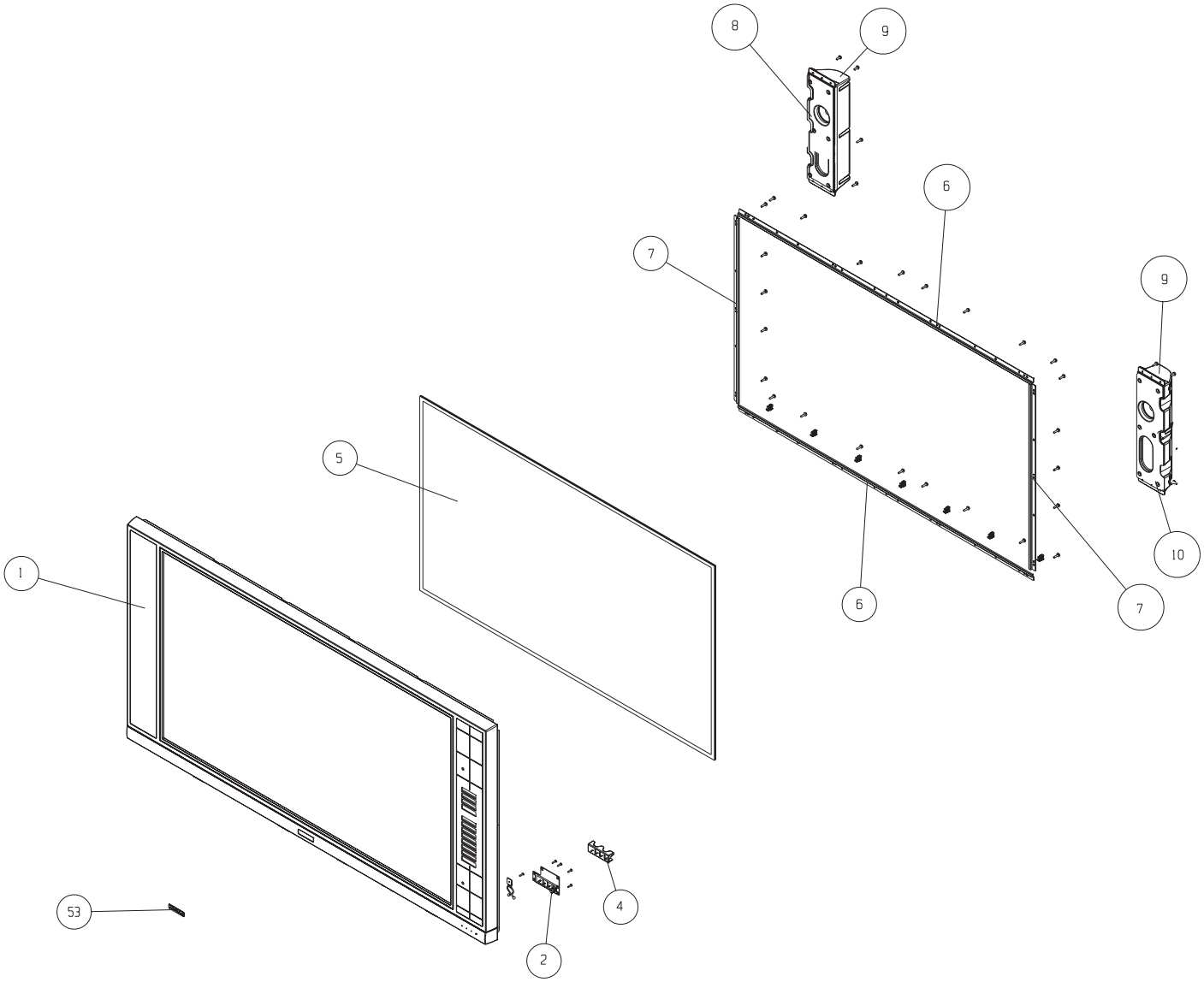
EXPLODED VIEW
60VX500/60V500A Drawing 2



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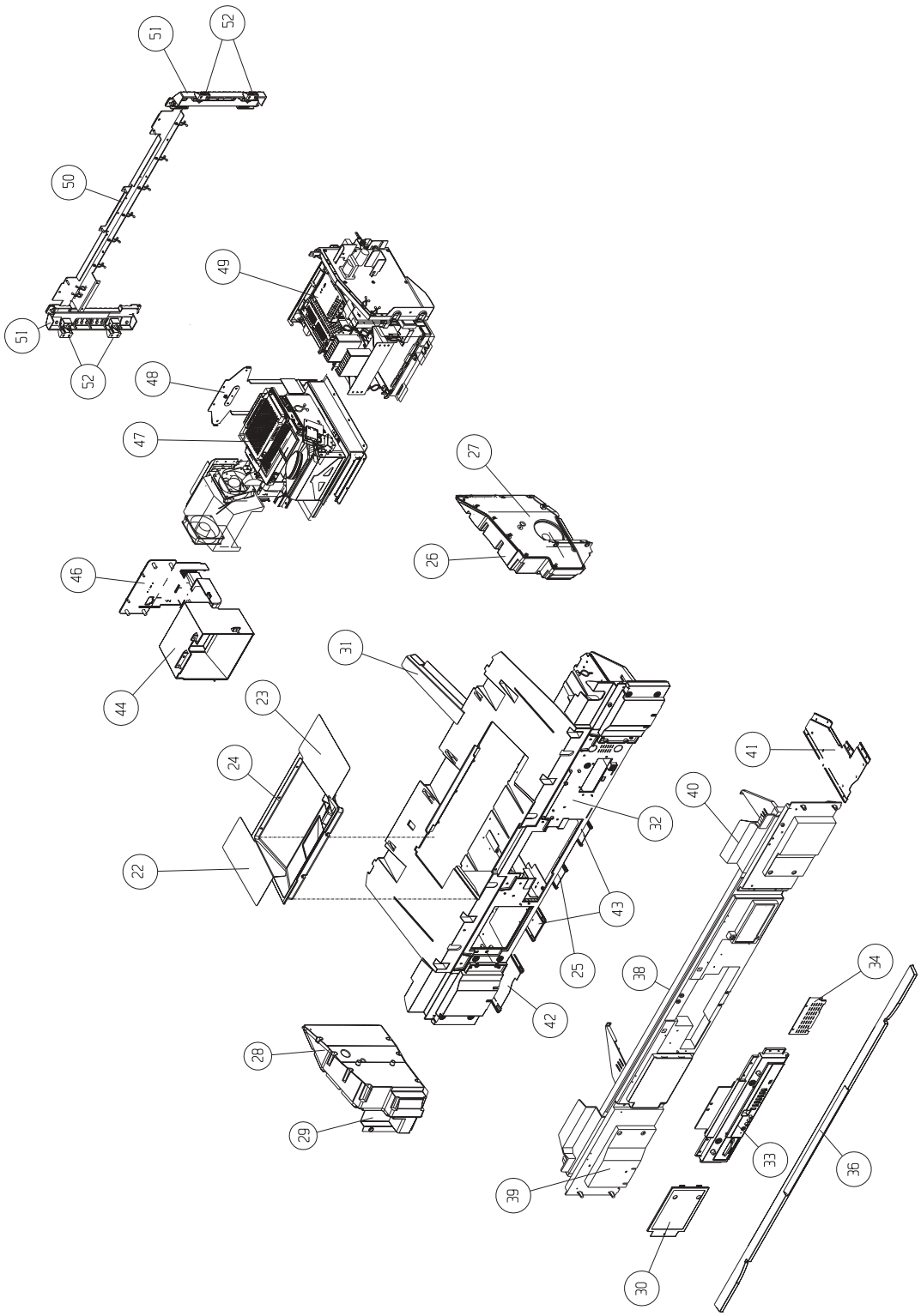
EXPLODED VIEW

60VX500/60V500A Drawing 3



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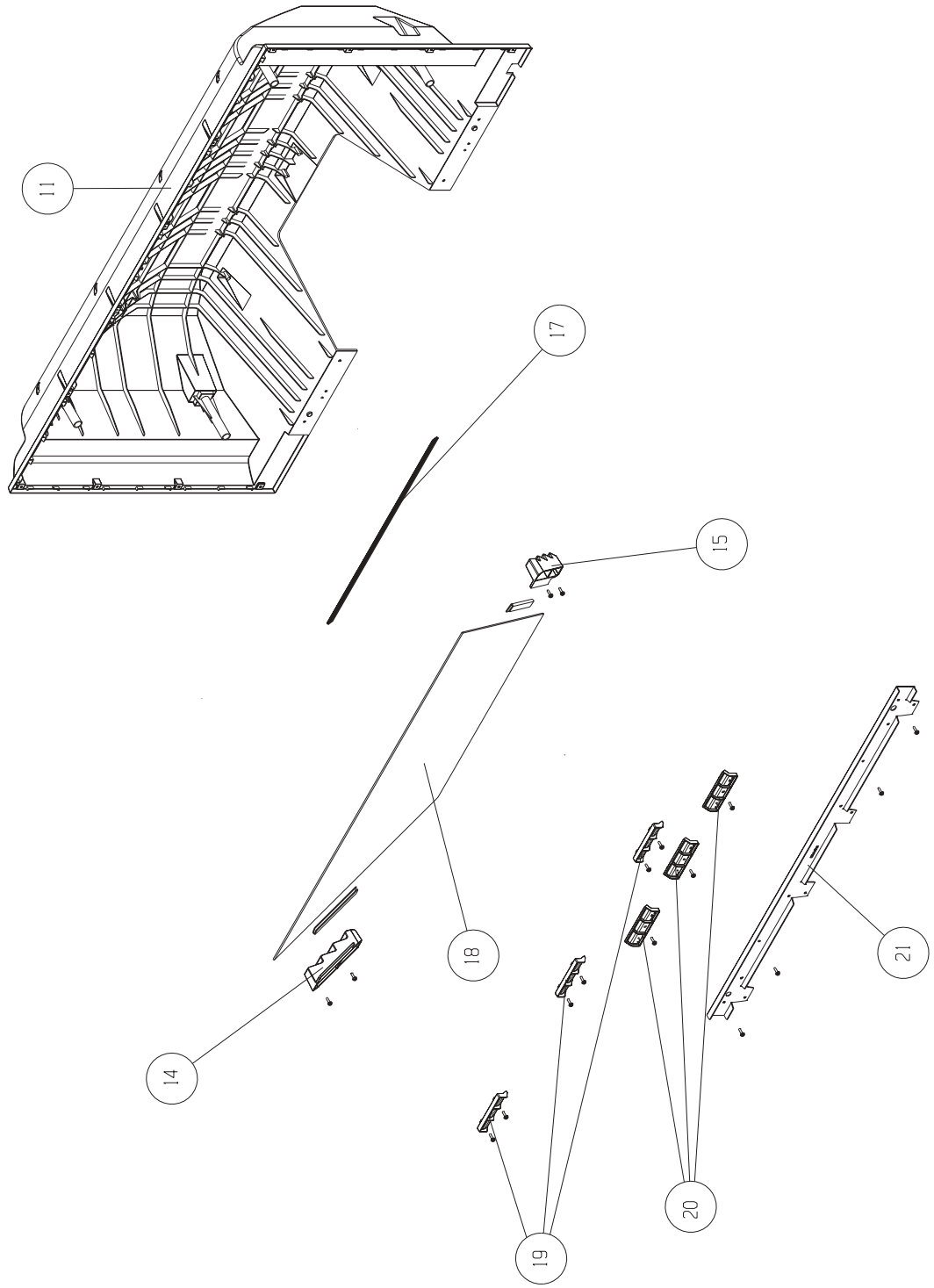
EXPLODED VIEW
60VX500/60V500A Drawing 4



NOTES: Some parts may appear different than those shown in the exploded view. When ordering, refer to the replacement parts list for the correct part number. The circled numbers correspond to the parts list shown on page 12.

60" EXPLODED VIEW PARTS LIST

No	60V500A PART No	60VX500 PART No	DESCRIPTION	QTY
1A	NT03104	NT03106	60V500 FRAME ASSY	1
1	QD36511	QD36512	SCREEN FRAME 60V500	1
2	JT24171	JT24171	CONTROL PWB ASSY	1
3	PC05731	PC05731	POWER BUTTON V500	1
4	KQ03291	KQ03291	LED LENS V500	1
5	KR02912	KR02916	60V SCREEN ASSY	1
6	NA66782	NA66784	SCR FIX MTL H 60V500	2
7	NA66792	NA66794	SCR FIX MTL V 60V500	2
8	NJ08042	NJ08042	SP BAFFLE L V500	1
9	NJ08051	NJ08051	SP BOX COVER V500	2
10	NJ08041	NJ08041	SP BAFFLE R V500	1
11A	KS06404	KS06402	60V500 MIRROR COVER ASSY	1
11	QD36521	QD36521	MIRROR COVER 60V500	1
14	NJ07822	NJ07822	MIRROR FIX PART L 50V500	1
15	NJ07821	NJ07821	MIRROR FIX PART R 50V500	1
17	MN06152	MN06152	60V500 MIRR LOW SPACER	1
18	KS06582	KS06582	1ST MIRROR 60V500	1
19	NJ07831	NJ07831	MIRROR FIX PART UP B 50V500	3
20	NJ07811	NJ07811	MIRROR FIX PART LOW 50V500	3
21	NA67801	NA67801	BACK COVER BOTTOM METAL	1
22	MN05841	MN05841	V500 BARRIER L	1
23	MN05831	MN05831	V500 BARRIER R	1
24	ME03442	ME03442	LOW UPPER COVER V500	1
25A	QD36002	QD36002	60V LOW CABINET ASSY	1
25	NA68501	NA68501	BTM RAIL MTL C60	1
26	NJ08072	NJ08072	WOOFER BOX COV L V500	1
27	NJ08061	NJ08061	WOOFER BAFFLE R V500	1
28	NJ08071	NJ08071	WOOFER BOX COV R V500	1
29	NJ08062	NJ08062	WOOFER BAFFLE L V500	1
30	PH33032	PH33032	LAMP COVER	1
31	ME03592	ME03592	V500 BARRIER SIDE R	1
32	QD36153	QD36153	LOW CABINET 50V500	1
33	PH33162	PH33162	CONTROL PANEL 60V	1
34	QD36531	QD36531	Lower Rear Cover 60"	1
35	PH33311	PH33311	FRONT TRIM 50V500	1
36	PH33301	PH33302	FRONT COVER 50V500	1
36A	PH33291	PH33292	BOTTOM RAIL 60V500	1
37	PH33173	PH33174	CONTROL DOOR V500	1
38	PH33551	PH33551	FRONT SPACER BOX 60V	
39	NJ08001	NJ08001	LO CABI SIDE L 60V500	1
40	NJ08002	NJ08002	LO CABI SIDE R 60V500	1
41	NA68512	NA68512	BTM SIDE FIX MTL R60	1
42	NA68511	NA68511	BTM SIDE FIX MTL L60	1
43	NA64191	NA64191	BTM RAIL MTL C60	2
44	NJ08181	NJ08181	LAMP DUCT B LC3X	1
46	NJ08171	NJ08171	LAMP DUCT A LC3X	1
47	UX22203D	UX22203D	60V500 OPTICAL BLOCK ASSY	1
48	NA66774	NA66774	LOW CABI METAL C V500	1
49	UE22344	UE22344	60V CHASSIS BLOCK ASSY	1
50	NA66763	NA66763	LOW CABI METAL B V500	1
51	NJ08261	NJ08261	V500 CABI BRACKET 2	2
52	NJ08271	NJ08271	V500 CABI BRACKET 3	4
53	PU00801	PU00802	ULTRAVISION BADGE	1

CH 3

HITACHI